

# REFERENCE CASE REFINERY



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## Full Inspection Program for Clean Fuel Project in Kuwait

A large oil refining complex in Kuwait, the client, required a risk-based inspection (RBI) study to meet 2020 expected market demands. They turned to the TÜV Rheinland experts as experienced partners in RBIs who work systematically to identify potential areas of improvement.

Basic Facts	
Client	Oil refining company
Time frame	End of 2016 to mid-2017
Project location	Kuwait
Main services	Risk-based inspection services
Involved regulations	International codes and standards for RBI

### Initial situation and requirements

As part of a new large project, the client plans the retirement of one of the processing facilities, and a major upgrade of two other facilities. A further goal is to integrate the company's newly designed refinery system into one refining complex. The ultimate aim is to meet 2020 expected market demands and specifications for transport fuels. Additionally, the processing capacity at the two upgraded facilities has been set to increase to 800,000 barrels per stream day (BPSD). The integration of refinery capacity ensures the best use of the existing infrastructure.

## Solutions, results

To support the consortium responsible for the Clean Fuel Project in Kuwait with project implementation, 10 of our experts will be conducting a study over six months. They will provide a total inspection program based on this study. The RBI will examine plant equipment and pipes per applicable codes and standards at specified intervals.

RBI helps to reduce the running costs as well as improve the availability of the plant. Plant safety is enhanced based on periodic inspections that are scheduled according to a detailed analysis of the current conditions on site. The project is supported by the EVP Industrial Services team, and so represents another great example of the close cooperation between TÜV Rheinland affiliates.

### Did you know?

This project is part of a broader trend of increasing crude oil production and renovation of plant facilities in Kuwait.

### Benefits for the client

Our experience in risk-based inspection services make us a reliable partner. We will support our client with:

- Project implementation
- Risk-based inspections
- Managing and reducing risk of operational malfunction

### About TÜV Rheinland:

Founded more than 140 years ago, TÜV Rheinland is a global leader in independent inspection services, ensuring quality and safety for people, the environment, and technology in nearly all aspects of life.

We inspect technical equipment, products and services, oversee projects and help to shape processes for companies around the world. Since 2006, we have been a member of the United Nations Global Compact to promote sustainability and combat corruption.